CONVERSATIONAL NETWORKING VIA TRANSPORT, CODING

AND CONTROL CONVERSATIONAL PROTOCOLS

ABSTRACT OF THE DISCLOSURE

Conversational protocols for implementing distributed

conversational networking architectures and/or distributed

conversational applications, as well as real-time

conversational computing between network-connected pervasive

computing devices and/or servers over a computer network.

In one aspect of the invention, a communication stack for

use in a real-time distributed conversational network

comprises a first layer for generating encoded audio data, a

second layer for wrapping encoded audio data in a real-time

encoded audio data stream, and a third layer for wrapping

control messages in a real-time control data stream for

real-time control of conversational distributed functions

over the network. Preferably, the communication stack

comprises extensions of RTP (Real Time Protocol) and RTCP

(Real Time Control Protocol) to respectively transmit, in

real-time, the necessary encoded audio data and control data

for executing and controlling distributed conversational

functions, wherein meta information associated with the

real-time encoded audio stream is added as an extension of a

header of an RTP packet, and wherein meta information

associated with the real-time control data stream is added

as an extension of a header of an RTCP (Real Time Control

Protocol) packet. The control data may comprise any type of

5   application-specific control data that is needed for

implemented a specific distributed framework.